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Dehydroepiandrosterone sulfate is positively correlated with soluble interleukin 2 receptor and soluble intercellular adhesion molecule in systemic lupus erythematosus.

[Straub RH](#), [Zeuner M](#), [Antoniou E](#), [Schölmerich J](#), [Lang B](#)
J Rheumatol 1996 May 23;856-61

BROWSE : [J Rheumatol](#) • [Volume 23](#) • [Issue 5](#)

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Abstract

OBJECTIVE. To determine whether dehydroepiandrosterone sulfate (DHEAS) is linked with soluble immune mediators in systemic lupus erythematosus (SLE). **METHODS.** DHEAS and various soluble immune mediators were measured by ELISA in the serum of 35 patients with SLE (26 women, 9 men) and in 41 control subjects. **RESULTS.** DHEAS was lower in patients with SLE compared to controls (male 1.29 +/- 0.32 vs 3.04 +/- 0.33 micrograms/ml, $p < 0.001$; female 0.75 +/- 0.12 vs 2.16 +/- 0.18 micrograms/ml, $p < 0.001$). The DHEAS reduction was in part dependent on prior glucocorticosteroid treatment ($p < 0.02$). After adjustment for multiple comparisons, there was significant negative correlation between steroid dose and DHEAS (RRank = -0.426, $p = 0.005$), but with none of the soluble immune mediators. No significant difference in the percentage of steroid treated male and female patients was found ($p = 0.220$). However, there was positive correlation between DHEAS and soluble interleukin 2 receptor in women, but not in men, with SLE [RRank = 0.747 ($n = 26$, $p < 0.0001$) vs RRank = -0.1333 ($n = 9$, $p = 0.366$)] and between DHEAS and soluble intercellular adhesion molecule in women, but not in men, with SLE [RRank = 0.509 ($n = 26$, $p = 0.005$) vs RRank = 0.4833 ($n = 9$, $p = 0.094$)]. **CONCLUSION.** These data demonstrate positive interrelation between DHEAS and soluble immune mediators involved in leukocyte function and leukocyte adhesion only in female patients with SLE.

MeSH

Adult; Cell Adhesion Molecules; Dehydroepiandrosterone Sulfate; E-Selectin; Female; Glucocorticoids, Synthetic; Human; Intercellular Adhesion Molecule-1; Interleukins; Lupus Erythematosus, Systemic; Male; Middle Age; Prasterone; Prednisolone; Receptors, Interleukin-2; Statistics, Nonparametric; Vascular Cell Adhesion Molecule-1

-continued

GGT GCG ACT GCA CAG CAG TTC CAC AGG CAC AAG CAG CTG ATC CGA Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile Arg 95 100 105	315
TTC CTG AAA CGG CTC GAC AGG AAC CTC TGG GGC CTG GCG GGC TTG Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu 110 115 120	360
AAT TCC TGT CCT GTG AAG GAA GCC AAC CAG AGT ACG TTG GAA AAC Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn 125 130 135	405
TTC TTG GAA AGG CTA AAG ACG ATC ATG AAC GAG AAA TAT TCA AAG Phe Leu Glu Arg Leu Lys Thr Ile Met Asn Glu Lys Tyr Ser Lys 140 145 150	450
TGT TCG AGC TAG Cys Ser Ser End 153	462

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

- (A) DESCRIPTION: hIL-4/R121P

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

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TTA CAG GAG ATC ATC AAA ACT TTG AAC AGC CTC ACA GAG CAG AAG Leu Gln Glu Ile Ile Lys Thr Leu Asn Ser Leu Thr Glu Gln Lys 35 40 45	135
ACT CTG TGC ACC GAG TTG ACC GTA ACA GAC ATC TTT GCT GCC TCC Thr Leu Cys Thr Glu Leu Thr Val Thr Asp Ile Phe Ala Ala Ser 50 55 60	180
AAG AAC ACA ACT GAG AAG GAA ACC TTC TGC AGG GCT GCG ACT GTG Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg Ala Ala Thr Val 65 70 75	225
CTC CGG CAG TTC TAC AGC CAC CAT GAG AAG GAC ACT CGC TGC CTG Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr Arg Cys Leu 80 85 90	270
GGT GCG ACT GCA CAG CAG TTC CAC AGG CAC AAG CAG CTG ATC CGA Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile Arg 95 100 105	315
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AAT TCC TGT CCT GTG AAG GAA GCC AAC CAG AGT ACG TTG GAA AAC Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn 125 130 135	405
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TGT TCG AGC TAG	462